

**CLAIMS**

1. Radiation detector comprising a counter (1),  
an absorbing enclosure (2) surrounding the counter  
5 except for the collimation slit (3) leading to the  
counter, characterized in that it comprises a motor (7)  
servocontrolled to a set counter signal current (Tcc),  
and a transmission (8, 9) connecting the motor to a  
mobile portion (12) of the absorbent enclosure,  
10 partially delimiting the collimation slit, to move the  
said mobile portion to increase or reduce the width of  
the collimation slit depending on the activity of the  
motor, the motor moving on one side of the detector  
opposite the collimation slit and the transmission  
15 extending through the absorbent enclosure.

2. Radiation detector according to claim 1,  
characterized in that it comprises an axis (13)  
parallel to a length direction of the slit to which the  
mobile portion is articulated, the transmission  
20 comprises a sliding rod (9) finishing at a handle (14)  
sliding in a drilling (11) that is oblique with respect  
to the rod forming the mobile portion.

3. Radiation detector according to claim 2,  
characterized in that the mobile portion delimits the  
25 collimation slit by a convex face (15) moving away from  
the axis (13).